District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street Artesia, NM 88210-1404 District III 1000 Rio Brazos Rd, Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088 APPLICATION FOR PER				MIT '	Energy, Mir DIL CON Santa TO DRI Operator Iack Energ P.O. H	nerals & Natura ISERVAT PO Box a Fe, NM LL, RE-E r Name and A y Corporatio 30x 960 1 88211-096	87504-208	22324252	Revised Februa Instructi Submit to Appropriate Dis State Leas Fee Leas 324 25 26 25			5,0				
-	rty Code	_					Property Name	12	4010019	372	Well No.					
24	4410	>					Pawnee State					1	ı.			
	C	T		Danaa	Lot Idn	Surface Feet from th	e Location	line	Feet from the	East	last line	County				
UL or lot no.	Section	Town		Range	Lot Idii		FNL		1600							
G	16	17		30E	l Bottom I	2185	ation If Dif	1		1	FEL	L Eddy				
UL or lot No.				Range	Lot Idn	Feet from th			Feet from the			County				
		Pr	oposed	Pool 1					Propos	ed Pool :	2					
	Lo	co Hil	ls Pad	dock 90	5718				<u> </u>				i.			
Work T	ype Code	<u> </u>	w	ell Type	Code	Cab	le/Rotary	Lease Type Co	Code Ground Level Elevation							
			••		Couc		R	S			3676					
N Multiple			O Proposed Depth			Formation		+	Contractor		S	Spud Date	l			
No				5500'		Paddock			LaRue		5	5/30/1999				
				P	roposed	Casing a	and Cemen	t Pro	gram							
Hole S	ize		Casing	Size	Casir	g weight/foot	Setting			of Cemen	:	Estimated TOC				
17 1/	2		13 3/8					350' 250' 130		4						
12 1/-		<u> </u>	8 5/8			24		1100'		irc						
7 7/8	3		5 1/	5 1/2		17	550	0'	Sufficient to Circ		rc					
zone. Describe casing an Note: Or	the blowou N d cement.	t prever lack E Drill on stri	ntion pr Energy to 550 ng, a	ogram, if Corpor 00' and t	any. Use add ation prope est Paddoc iber will be	ditional sheets oses to drill t ek Zone, run	ACK give the dat if necessary. to 250', run 13 5 1/2" casing 11 figure cemer	3/8" ca and cer	nsing and cemo nent. Put wel 25% excess, a	ent. Dri I on pro Ittempt 1 0 s T 3 - 2 c	ill to 1100 duction.	e.				
I hereby certify		ormatio	n given	above is t	rue and comp	lete to the best	0		ONSERVA	TION	DIVIS	ION				
of my knowledge and belief Signature							Approval by: OIL CONSERVATION DIVISION ORIGINAL SIGNED BY TIM W. GUM36X									
- That I Bre			rwer			DISTRICT II SUPERVISOR					-776X)					
	Printed name: Matt J. Brewer						<u> </u>	Evaint	n Dete 🖜							
Title:	Geological Engineer						Approval Date: 3.16.99 Expinition Date 3.16.00									
Date:				Phone:	(606)740	1200	Conditions of A	pproval:								
2/24/1999					(505)748-2	1200	L									

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1 DISTRICT II P.O. Drawer DD, Artosia, NM 68211 DISTRICT III 1000 Rio Brazos Rd., Aztec, N DISTRICT IV P.O. BOX 2068, SANTA FE, N.M. 87	-0719 NI 87410 504-2088	WELL LO	Energy, Min CONS Santa Fe, CATION 4	tate of Non- bornels and Nature ERVAT P.O. Box New Mexi AND ACRE	I Resources Depa ION De 2088 co 87504		2232425262 Submit FEB 1999 RECINVED D - ARTESIA NL BBAP 540	Revised Februar	trict Office - 4 Copies - 3 Copies	
API Number			Pool Code 6718		L	loco H	Pool Name ills Paddoc	2k		
Property Code				Property Na PAWNEE S	TATE			Well Number 1		
OGRID No. 013837			MACI	operator Na K ENERGY				Elevation 3676		
·····	· · · · · · · · · · · · · · · · · · ·		·····	Surface Lo						
UL or lot No. Section G 16	Township 17 S	Range 30 E	Lot Idn	Feet from the 2185	North/Sout		Feet from the 1600	East/West line EAST	county EDDY	
· · · · · · · · · · · · · · · · · · ·				tion If Diff	1					
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/Sout	th line	Feet from the	East/West line	County	
Dedicated Acres Joint o	r Infill Cor	nsolidation (	Code Order	No.	_l		I			
NO ALLOWABLE W							ESTS HAVE BE HE DIVISION	EN CONSOLIDA	ATED	
				2185'	1600'		I hereby contained hereir best of my know Signature Matt J. Printed Name Geologic Title 2/23/99 Date SURVEYO I hereby certify on this plat wo actual surveys supervision and correct to the FEBRI Date Surveys Signature 4. Professional Bate 3. Certificate No.	Brewer e cal Engineer PR CERTIFICAT that the well location that the well location that the well location that the well location that the same is e best of my belief JARY 12, 1999	formation ete to the TION ion shown i notes of under my true and f. DMCC P DMCC	

# LOCATION VERIFICATION MAP



COUNTY\_\_\_\_EDDY

ELEVATION \_\_\_\_\_ 3676

U.S.G.S. TOPOGRAPHIC MAP

LOCO HILLS, N.M.

DESCRIPTION 2185' FNL & 1600' FEL

OPERATOR <u>MACK ENERGY CORP.</u> LEASE <u>PAWNEE STATE</u> JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117 VICINITY MAR



SCALE: 1'' = 2 MILES

SEC. <u>16</u> TWP.<u>17–S</u> RGE. <u>30–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>2185' FNL & 1600' FEL</u> ELEVATION <u>3676</u> OPERATOR <u>MACK ENERGY CORP.</u> LEASE <u>PAWNEE STATE</u>

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

# Mack Energy Corporat Exhibit #11

MIMIMUM CHOKE MANIFOLD 3,000, 5,000, and 10,000 PSI Working Pressure 2 M will be used or greater 3 MWP - 5 MWP - 10 MWP



\* Location of separator optional

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#### **Below Substructure**

#### **Mimimum requirements**

	3,00 <b>0 MWP</b>					5,000 MWP			10,000 MWP		
No.		LD.	NOMINAL.	Rating	L.D.	Nominal	Rating	I.D.	Nominal	Ratin	
1	Line from drilling Spool		3"	3.000		3-	5,000		3"	10,000	
2	Cross 3" x 3" x 3" x 2"			3,000		1	5,000				
2	Cross 3" x 3" x 3" x 2"			· · · · · ·		T				10,000	
3	Valve Gule Plug	3 1/8		3,000	3 E/8		5,000	3 1/8		10,000	
4	Valve Gatc Plug	1 13/16		3,000	1 13/16		5.000	1 13/16		10,000	
4a	Valves (1)	21/16		3,000	21/16	1	5,000	2 1/16		10,000	
5	Pressure Gauge			3,000			5,000			10,000	
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	
7	Adjustable Choke (3)	2"		3,000	2"	1	5,000	2"		10,000	
8	Adjustable Choke	1"		3,000	1"	1	5,000	2"		10,000	
9	Line		3"	3,000		3"	5,000		3"	10,000	
10	Line		2"	3,000		2"	5,000		2"	10,000	
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	
12	Linc	f	3"	1,000	1	3"	1,000		3"	2.000	
13	Line		3"	1,000		3"	1,000	T	3"	2,000	
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000	
15	Gas Separator	1	2' x5'		I	2' x5'			2' x5'		
16	Line		4"	1,000		4"	1,000		4"	2,000	
17	Valve Gale Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	

(1) Only one required in Class 3M

(2) Gate valves only shall be used for Class 10 M

(3) Remote operated hydraulic choke required on 5,009 psi and 10,000 psi for drilling.

## EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating. 1.

All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP. 2.

- All lines shall be securely anchored. 3.
- Chokes shall be equipped with tungsten carbide sents and needles, and replacements shall be available. 4.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor is conjunction with the 5. standpipe pressure gauge.
- Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns 6. by large bends or 90 degree bends using buil plugged tees.

# Mack Energy Corporation Minimum Blowout Preventer Requirements 2000 psi Working Pressure 2 MWP EXHIBIT #10

### Stack Requirements

NO.	litems	Min	Min
	- Built reg	LD.	Nominal
1	Flowline	1.0.	2"
2	Fill up line	1	2"
3	Drilling nipple		
4	Annular preventer		<u>                                      </u>
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	31/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	21/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



OPTIONAL Flanged Valve

CONTRACTOR'S OPTION TO FURNISH:

16

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- BOP controls, to be located near drillers' position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on detrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH:

- 1. Bradenhead or casing head and side valves.
- 2. Wear bushing. If required.

GENERAL NOTES:

1 13/16

- Deviations from this drawing may be made only with the express permission of MEC's Dritting Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of prevensors up through choke valves must be full opening and suitable for high pressure mud service.
- Connois to be of standard design and each marked, showing opening and closing position.
- Choizes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, or bean

sizes, retainers, and choke wrenches to be conveniently located for immediate use.

- All valves to be equipped with hand-wheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.
- Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- Do not use kill line for routine fill up operations.

# Mack Energy Corporation Exhibit #9 BOPE Schematic



Choke Manifold Requirement (2000 psi WP) No Annular Required

